

AMENDMENTS TO THE CLAIMS

1. (Currently amended) ~~Interconnect~~ An interconnect device for a fuel cell comprising an electrolyte, an anode and a cathode, the interconnect device comprising a channel system having a first plurality of channels, each channel being closed in one end and having either an inlet side or an outlet side at the open end of the channel, each channel having an inlet side placed in alternating order with a channel having an outlet side, the inlet side of each channel being placed in consecutive order on one side of the interconnect, and the outlet ~~sides~~ side of each channel being placed in consecutive order on the opposite side of the interconnect relative to the inlet side, and a second plurality layer of channels ~~[[is]]~~ located on the surface of the first plurality of channels of the channel system so that the second plurality of channels is in a plan which is about parallel to the first plurality of channels.

2. (Currently amended) ~~Interconnect~~ The interconnect device according to claim 1, wherein the first plurality of channels of the channel system has a plurality of straight, parallel channels.

3. (Currently amended) ~~Interconnect~~ The interconnect device according to claim 1,

wherein channels of the second layer plurality of channels intersect the channels in the first plurality of channels of the channel system, the second ~~layer plurality~~ of channels being closed at both ends and the channels of the first plurality of channels ~~channel system~~ remaining open throughout their length.

4. (Currently amended) ~~Interconnect~~ The interconnect device according to claim 1,

wherein the channels of the second layer plurality of channels are closed at their surface and at both ends, and are placed parallel to and directly above the channels of the first plurality of channels in the channel system, the closed surface being perforated in the area of the channels.

5. (Currently amended) ~~Interconnect~~ The interconnect device according to claim 4, wherein the closed, perforated surface of the channel system comprises a separate interlayer placed on the surface of the channel system.

6. (Currently amended) ~~Interconnect~~ The interconnect device according to claim 1, ~~and 2~~, wherein ~~a second layer of channels is located on the surface of the channel system~~, the second layer plurality of channels ~~intersecting~~ intersects the channels of the first plurality of channels in the channel system, the second layer plurality of channels being closed at both ends, the first plurality of channels of the channel system being partly closed.

7. (Currently amended) ~~Interconnect~~ The interconnect device according to claim 3,

wherein the second layer plurality of channels comprises a separate interlayer placed on the surface of the channel system.

8. (Currently amended) ~~Interconnect~~ The interconnect device according to claim 1, wherein the channels of the first plurality of the channel system are provided with distribution and collection holes.

9. (Original) A fuel cell comprising an electrolyte, an anode, a cathode and an interconnect device according to claim 1.

10. (Currently amended) ~~[[A]]~~ The fuel cell according to claim 9, wherein the fuel cell is a ~~high-temperature~~ solid oxide fuel cell.

11. (Currently amended) ~~[[A]]~~ The fuel cell according to claim ~~[[10]]~~ 9, wherein the fuel cell is ~~a solid oxide fuel cell or~~ a molten carbonate fuel cell.

12. (Original) A fuel cell stack comprising at least two fuel cells according to claim 9.